

**Iowa Division of Labor**
**Elevator Safety**

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# Periodic Hydraulic Elevator Test

State ID	<b>Check one:</b> 3 year      5 year	Last Category 1 Test Date:	Last Category 5 Test Date:
Building Name		Owner Name	
Address			

(Check box) Type:      Passenger      Freight      LULA      Restricted      MRL	# of Front Landings:	# of Rear Landings:	Total # of Landings:
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**Data Plate Information**

Capacity: _____ lbs	Speed: _____ fpm	Governor Tripping Speed: _____ fpm	Loaded Working Pressure: _____ psi
Front Door (2000 or later) (Code zone) Closing Speed: _____ sec	Rear Door (2000 or later) (Code zone) Closing Speed: _____ sec	Controller Manufacturer:	

REF #	Category 1	Is Test Satisfactory?
1	8.6.5.14.1 Relief Valve Verification of Setting and System Pressure Test: Relief Valve Pressure: _____ psi	P F N/A
2	8.6.5.14.2 Hydraulic Cylinders and Pressure Piping	P F N/A
3	8.6.5.14.3(a) Normal and Final Terminal Stopping Devices	P F N/A
4	8.6.5.14.3(b) Governors	P F N/A
5	8.6.5.14.3(c) Safeties Type (no load)      A      B      C	P F N/A
6	8.6.5.14.3(d) Oil Buffers	P F N/A
7	8.6.5.14.3(e) Firefighters' Emergency Operation	P F N/A
8	8.6.5.14.3(f) Standby or Emergency Power Operation (no load)	P F N/A
9	8.6.5.14.3(h) Emergency Terminal Speed-Limiting Device & Emergency Terminal Stop Device	P F N/A
10	8.6.5.14.3(i) Low Oil Protection Operation	P F N/A
11	8.6.5.14.4 Flexible Hose and Fitting Assemblies	P F N/A
12	8.6.5.14.5 Pressure Switch	P F N/A
13	8.6.5.14.6 Power Operation of Door System: Door Closing Speed (Code Zone): Front _____ sec; Rear _____ sec; Door Closing Force: Front _____ lbf; Rear _____ lbf	P F N/A
14	8.6.5.14.7 Slack-Rope Device	P F N/A
15	8.6.4.19.10 Functional Safety of SIL Rated Devices	P F N/A
16	8.6.4.19.15 Emergency Communications	P F N/A
17	8.6.4.19.16 Means to Restrict Hoistway or Car Door Opening	P F N/A
18	Miscellaneous Concerns – list on page 2	Y N
<b>Category 5 – Must complete Category 1 with this section</b>		
19	8.6.5.16.1 <b>Car:</b> Gov jaw trip: _____ fpm; Gov overspeed switch: _____ fpm; Gov Safety slide distance: _____ in; Safety release carrier pull force: _____ lbf; Gov pull through force: _____ lbf <b>Counterweight:</b> Gov jaw trip: _____ fpm; Gov overspeed switch: _____ fpm; Safety slide distance: _____ in; Safety release carrier pull force: _____ lbf; Gov pull through force: _____ lbf	P F N/A
20	8.6.5.16.2 Coated Ropes	P F N/A
21	8.6.5.16.3 Wire Rope Fastenings	P F N/A
22	8.6.5.16.4 Plunger Gripper	P F N/A
23	8.6.5.16.5 Overspeed Valves	P F N/A
24	8.6.5.16.6 Freight Class C2 Full Loading	P F N/A
<b>Category 3 – Must complete Category 1 with this section</b>		
25	8.6.5.15.1 Unexposed Portions of Pistons	P F N/A
26	8.6.5.15.2 Pressure Vessels	P F N/A

The tests were performed in compliance with ASME 17.1, A117.1, and Iowa Code 89A and in accordance with the code in effect at time of the original installation and/or any applicable alteration(s). **Complete page 2 for each failed item.**

<b>Company Performing Test</b>	<b>Company Address, City, State, Zip</b>	<b>Date</b>
<b>Individual Performing Test</b>	<b>Signature</b>	<b>Witness (if required)</b>
		<b>QEI #</b>

# Unsatisfactory Test Component

State ID #: \_\_\_\_\_

REF # (Page 1)	Part	Violative Condition	Suggested Remedy	Corrected During Test	Comments

## Part

<b>Inside Car</b>		24	Hall Button Station	43	Controller—Selector	66	Emergency Brake/Rope Gripper
01	Emergency Stop Switch	25	Indicators	44	Reverse Phase Relay	67	Communication
02	Alarm System	26	Car Door Restrictor	45	Traction Sheave	68	Maintenance Log
03	Car Phone	<b>Top of Car</b>		46	Governor	69	Code Data Plate
04	Car Enclosure	27	Top Emergency Exit Cover	47	Governor Switch	<b>Pit</b>	
05	Side Emergency Exit	28	Governor Release Carrier	48	Drum	70	Pit
06	Car Door/Gate	29	Door Hangers & Connectors	49	Pump Unit	71	Pit Light
07	Car Door/Gate Contact	30	Door Operator	50	Drum Machine Limit SW	72	Pit Stop Switch
08	Door Reopening Device	31	Normal Limits	51	Generator	73	Car Guide-Rails & Brackets
09	Car Sill to Hatch Sill	32	Final Limits	52	Slack Rope Switch	74	Cwt Guide-Rails & Brackets
10	Car Floor	33	Guide Shoes / Roller Guides	53	Hoist Cables	75	Buffers
11	Car Door Gibs	34	Counterweight	54	Governor Ropes	76	Car Safety & Tail Rope
12	Car Button Station	35	Hoistway	55	Car Counterweight Rope	77	Underside Platform
13	Car Lighting	36	Electrical Wiring	56	Drum Counterweight Rope	78	Tension Weight
14	Emergency Lighting	37	Pipes and Ducts	57	Hoist Machine	79	Comp / Chains / Ropes / Switch
15	Car Mirror	38	Overhead & Deflector Sheave	58	Hoist Motor	80	Counterweight Runby
16	Certificate Frame	39	Traveling Cable & Junction	59	Worm / Gear / Bearings	81	Counterweight Runby Signage
<b>Hoistway</b>		40	Car Top	60	Machine Brake	82	Plunger Gripper
17	Hoistway Doors	<b>Machine Room</b>		61	Lighting Machine Space	<b>Miscellaneous</b>	
18	Hoistway Door Gibs	41	Machine Room	62	Machine Disconnect SW	83	Entire Device
19	Hoistway Door Reinforcements	42	Machine Room Door	63	Commutator	84	Miscellaneous
20	Hoistway Door Safety Retainer			64	Motor Brushes		
21	Vision Panel			65	Unintended Car Movement		
22	Interlocks						
23	Parking Device						

## Violative Conditions

A	Altered	H	Worn	O	Dirty	V	Not Level
B	Insufficient	I	Damaged	P	No Means of Access	W	Unlocked
C	Padlocked	J	Misaligned	Q	Unguarded	X	Inoperative
D	Unsecured	K	Rusted	R	Illegal	Y	Oil Leak
E	Rubbing	L	Defective	S	Not Fire Retardant	Z	Water Leak
F	Lost Motion	M	Missing	T	Unlabeled	AA	Carbon Buildup
G	Improper Fuses	N	By-Passed	U	Device Not Tagged	BB	Expired Tag

## Suggested Remedy

01	Adjust	06	Properly Secure	11	Replace	16	Provide Means of Access
02	Clean	07	Provide	12	Reshackle	17	Reinspection Required
03	Install Guards	08	Regroove	13	Seal		
04	Patch	09	Remove	14	Shorten		
05	Perform Test	10	Repair	15	Tag Device		